A compaction filter sock check dam is composed of a geotextile (filter sock) and a filter media. The geotextile sock is placed over a selected filter media, typically a geotextile or a plastic geomembrane. The sock is flexible and can be used to create a barrier between two different materials, such as soil and water, or to filter out small particles from a flow. The sock is designed to stretch and conform to the shape of the check dam, providing a flexible barrier that can be easily shaped and molded to fit the desired contour of the check dam.

The filter media is chosen based on the specific requirements of the project. Common filter media include geotextiles, geosynthetics, and geocell materials. The filter media is selected to meet the necessary performance criteria, such as permeability, strength, and durability.

The compaction filter sock check dam is often used in areas where erosion control is critical, such as construction sites, roadways, and frequently flooded areas. It is also used in areas where sediment control is necessary, such as near water bodies or in drainage systems.

The compaction filter sock check dam is a versatile and effective solution for erosion and sediment control tasks, offering a flexible and adaptable approach to managing water flow and minimizing erosion.